

**REPORT OF PROPOSALS****For the Month of July/2003**

<b><u>Department</u></b>	<b><u>Investigator</u></b>	<b><u>Sponsor</u></b>	<b><u>Title</u></b>	<b><u>Amount</u></b>
<b>BIOMEDICAL ENG'G.</b>	Shonat, R.	NSF	CAREER: Oxygenation Maps of Retinal Disease	\$ 538,326
<b>BIOENGINEERING INSTITUTE</b>	Michalson, W. *Mendelson, Y. *Pedersen, P.	USAMRMC	Real-Time Troop Physiological Status Monitoring Systems Using a Common Wireless Network	\$ 819,000
<b>CHEMISTRY &amp; BIOCHEMISTRY</b>	Arguello, J. *Fairchild, C.	NSF	Functional Role of Divalent Heavy Metals Transport ATPases in Arabidopsis Thaliana	\$ 634,901
	Thalladi, V.	NSF	CAREER: Discovery and Selective Growth of Polymorphs of Pharmaceutical Drugs Using Self-Assembled Monolayer Templates	\$ 469,687
<b>CIVIL &amp; ENVIRONMENTAL ENGINEERING</b>	Plummer, J.	University of Massachusetts Amherst	Quantifying Watershed Activity Impacts on Microbial Risk in Source Waters	\$ 176,330
	Bergendahl, J. *Thompson, R.	Triton Systems, Inc.	Methyl Tertiary Butyl Ether (MTBE) Remediation by Hydrophobic Molecular Sieves Followed by Advanced Oxidation	\$ 30,000
<b>COMPUTER SCIENCE</b>	Ruiz, C.	NSF	CAREER: Mining Associative Patterns Over Datasets with Multiple Complex Data Attributes	\$ 500,897
<b>ELECTRICAL &amp; COMPUTER ENGINEERING</b>	Ludwig, R. *Sullivan, J.	Dartmouth College	Magnetic Resonance Microwave Absorption and Tomography Imaging	\$ 693,854

	Bogdanov, G.	Insight Neuroimaging Systems, LLC	Development of RF Coils for Multimodal Imaging	\$	40,000
	Papageorgiou, D.	NSF	CAREER: A Solid-State Spectrum Analyzer for Medical Diagnosis in an Implementable Micro-Chemical Delivery System	\$	581,547
	King, B.	NSF	CAREER: Nonlinear Nano-photonics Theory and FDTD Simulation Tools	\$	507,466
	Ludwig, R.	Insight Neuroimaging Systems, LLC	Gradient Coils to Enhance MRI Research	\$	300,000
<b>IGSD</b>	Krueger, R.	Massachusetts Technology Collaborative	The Feasibility of Using Biodiesel Cogeneration in a Multi-use Building in Worcester, Massachusetts	\$	18,250
	Davis, P. *Clements, K.	MIT Lincoln Laboratory	Implementation of a WPI Project Center at MIT Lincoln Laboratory	\$	32,339
<b>MANAGEMENT</b>	Danneels, E.	NSF	CAREER: Organizational Antecedents & Performance Consequences of Innovative New Product Programs in Turbulent Environments	\$	587,993
<b>MECHANICAL ENG'G.</b>	Sullivan, J. *Zhang, Q.	University of Massachusetts Worcester	Development of a Segmented Marmoset Atlas Suitable for fMRI Analyses of Sexual Motivation	\$	353,654
	Tryggvason, G. *Brown, C. *Hoffman, A. *Hou, Z. *Olinger, D.	NSF	Planning Revisions in the Mechanical Engineering Program at WPI	\$	99,960
	Moon, Y.	NSF	CAREER: Human Assisting System Design	\$	454,733
	Pryputniewicz, R. *Furlong, C.	BWXT-Pantex LLC.	Development and Fabrication of OEH Outside Measurement Workstation	\$	1,811,925

	Sullivan, J.	UMASS Medical School Worcester	Development and Refinement of Registration & Warping Algorithms Necessary to Transform MRI & Histological Images into a Standardized Reference Space	\$	75,157
	Furlong, C. *Hou, Z.	U.S. Nuclear Regulatory Commission	Novel Multilevel NDT for Health Monitoring of Entombed Structures by Advanced Optoelectronic Laser Shearography and MEMS Sensors	\$	420,000
<b>PHYSICS</b>	Koleci, C.	NSF	CAREER: Physics Education Research on Decision Making and Problem Solving to Guide Curriculum Development and Instruction	\$	522,906
<b>SS&amp;PS</b>	Pavlov, O.	NSF	CAREER: Technical, Economic, and Legal Dimensions of Peer-to-Peer Technology	\$	421,258
	<b>*CPI</b>		<b>Total</b>	<b>\$</b>	<b>10,090,183</b>